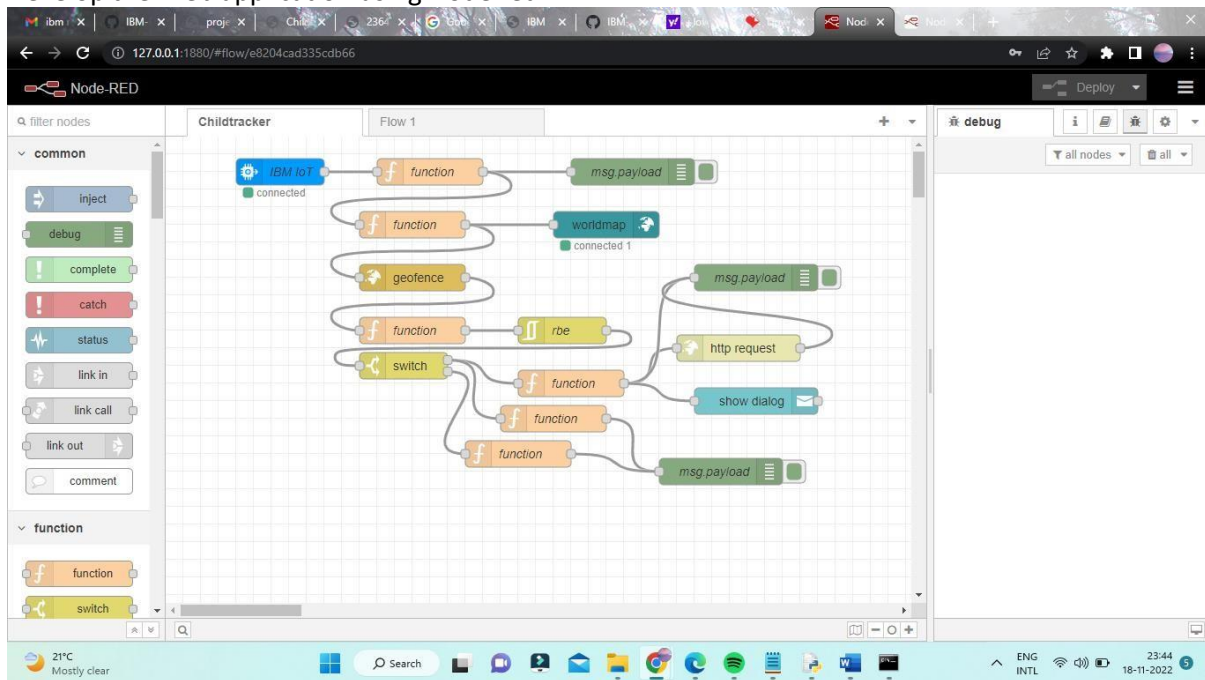


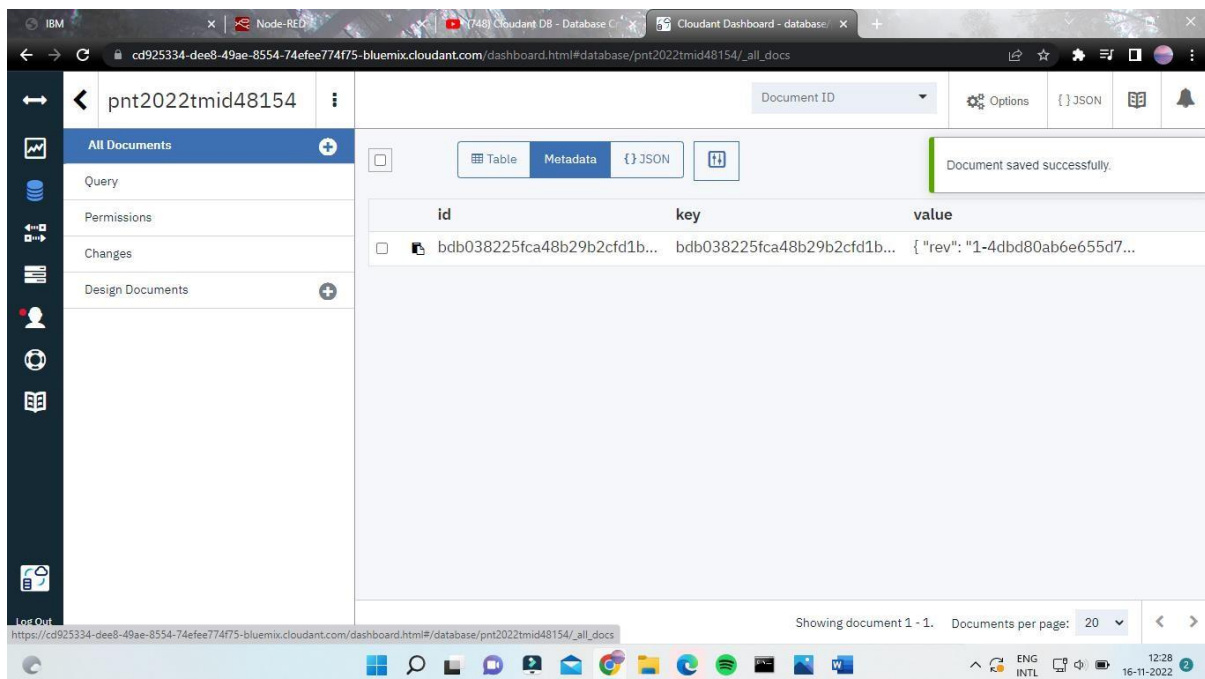
Develop A Web Application Using Node-RED Service.

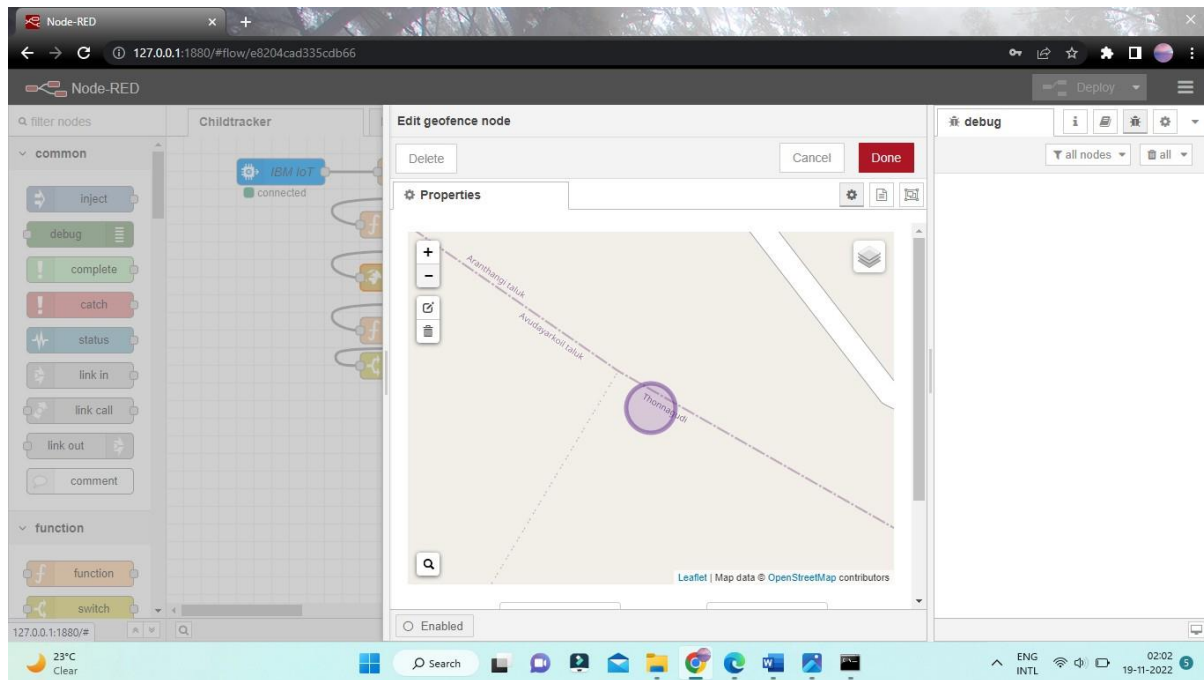
Team ID	PNT2022TMID48154
Project Name	IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION

Develop the Web application using Node red.

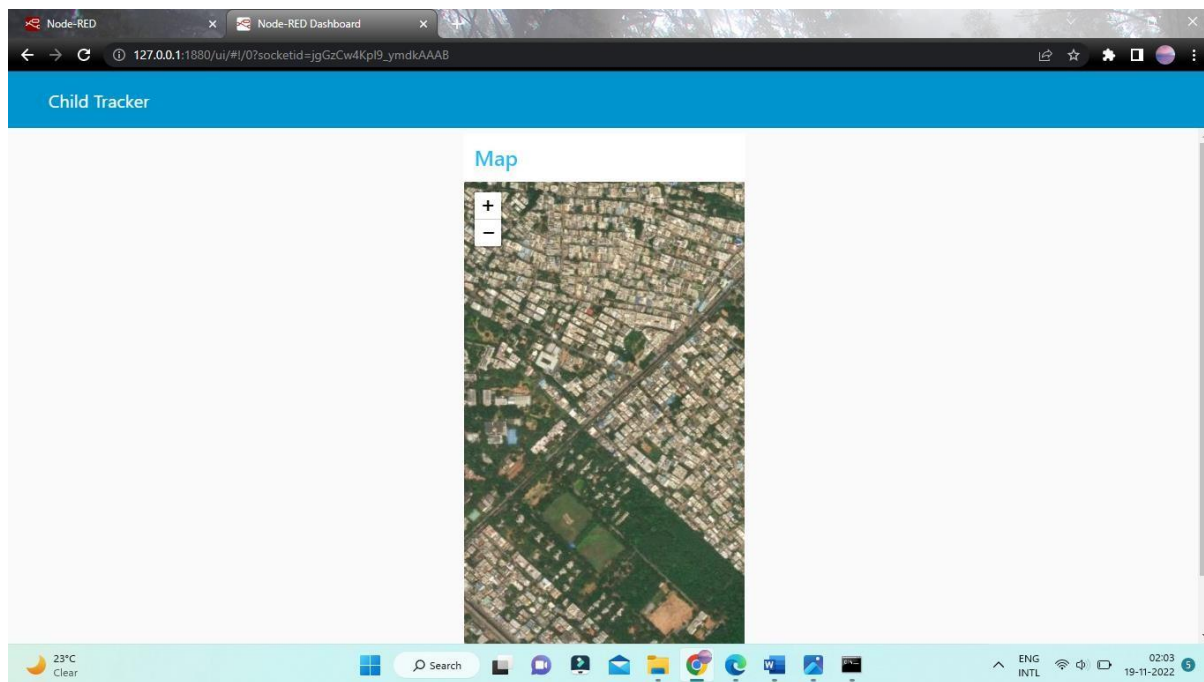


Connect to the IBM IoT Platform and get the location and Store the data in the Cloudant.

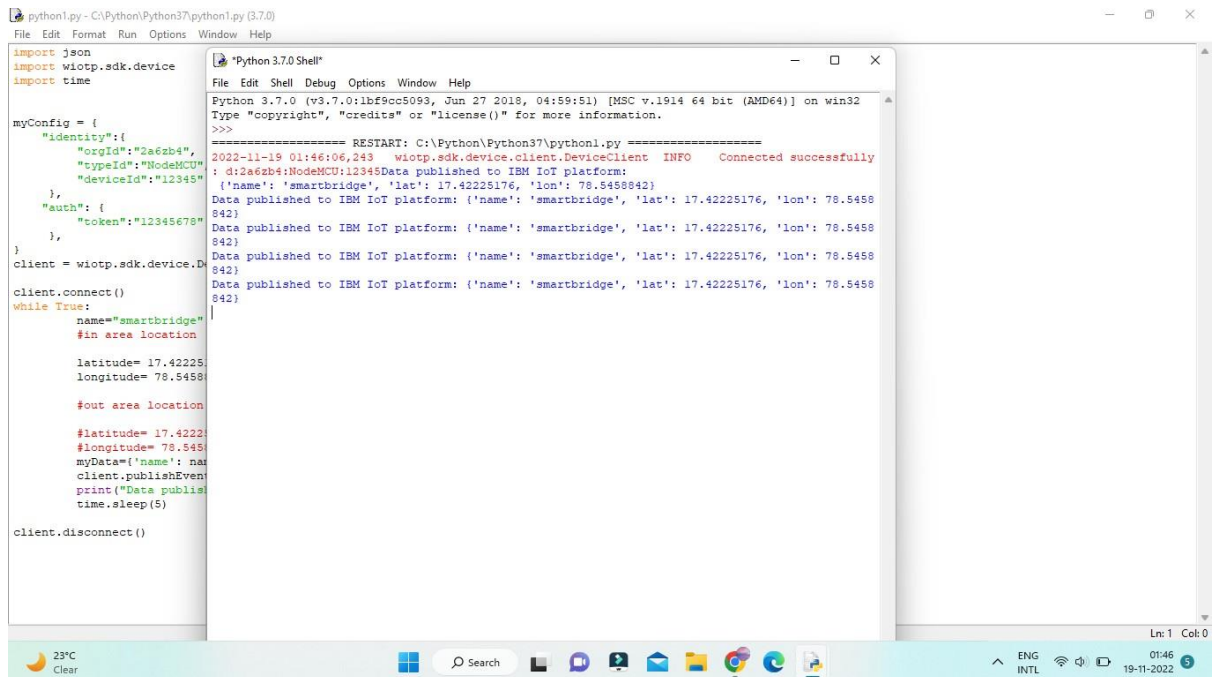




Create the geofence and Google map for location identification. Integrate the geofence and Google map to check if the child is inside or outside the geofence



Send the notifications if the child is outside the geofence#in area location



```
python1.py - C:\Python\Python37\python1.py (3.7.0)
File Edit Format Run Options Window Help

import json
import wiotp.sdk.device
import time

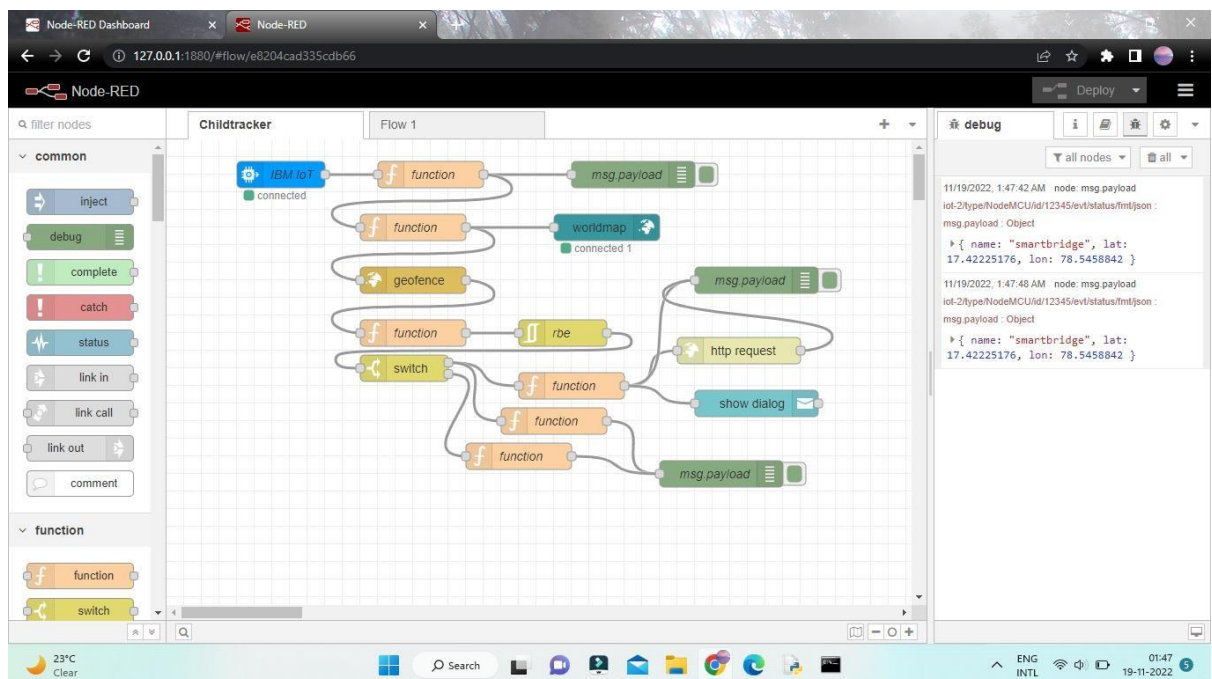
myConfig = {
    "identity": {
        "orgId": "2a62b4",
        "typeId": "NodeMCU",
        "deviceId": "12345"
    },
    "auth": {
        "token": "12345678"
    }
}
client = wiotp.sdk.device.DeviceClient(myConfig)
client.connect()
while True:
    name="smartbridge"
    #in area location
    latitude=17.42225
    longitude=78.54588

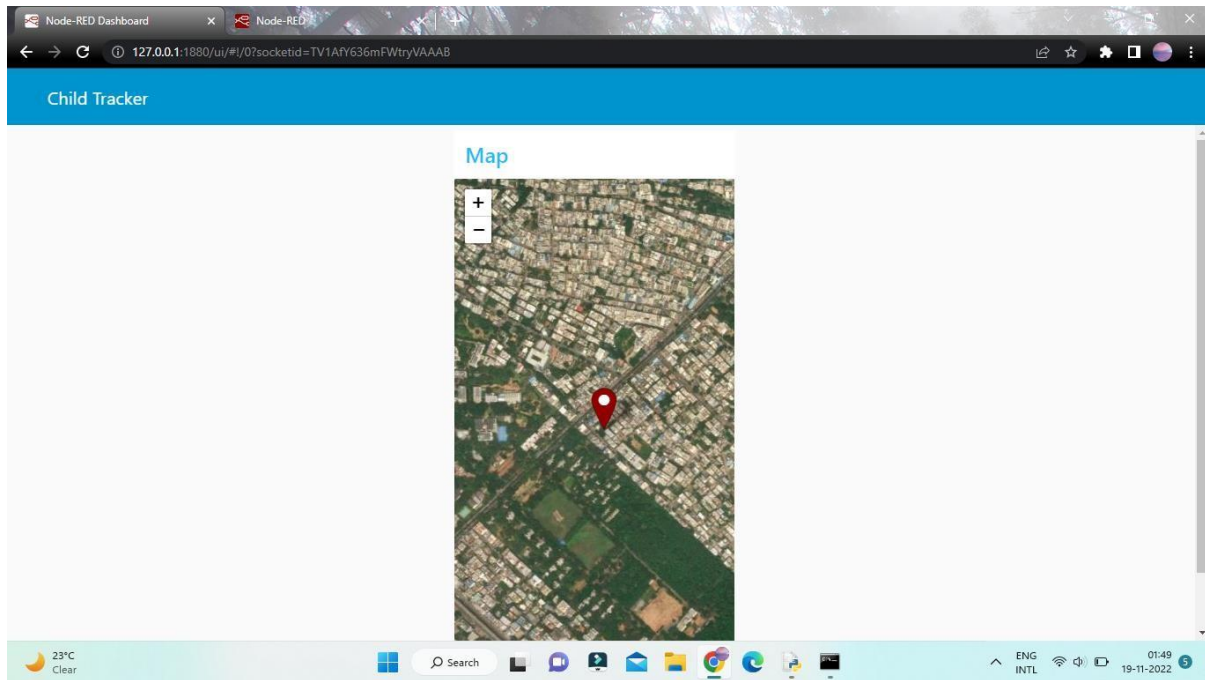
    #out area location
    #latitude=17.42225
    #longitude=78.54588
    myData={'name': name, 'lat': latitude, 'lon': longitude}
    client.publishEvent(myData)
    print("Data published successfully")
    time.sleep(5)

client.disconnect()
```

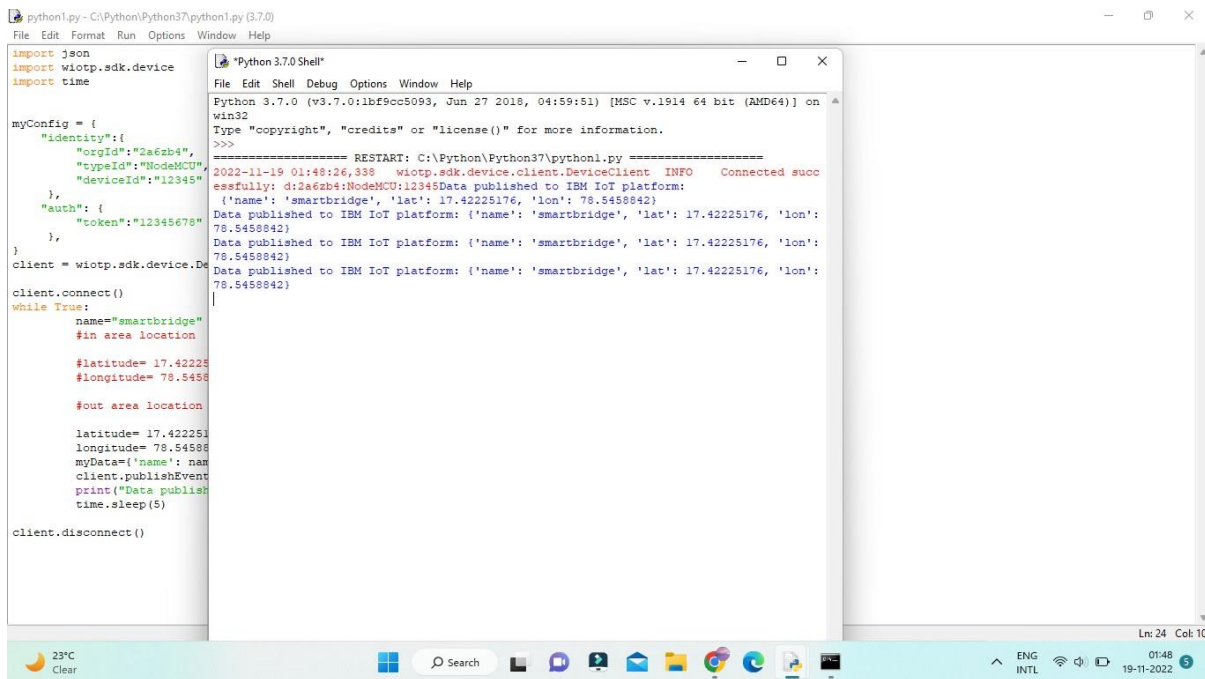
Python 3.7.0 Shell

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Python\Python37\python1.py =====
2022-11-19 01:46:06.243 wiotp.sdk.device.client.DeviceClient INFO Connected successfully
: d:2a62b4:NodeMCU:12345Data published to IBM IoT platform:
{'name': 'smartbridge', 'lat': 17.42225176, 'lon': 78.5458842}
Data published to IBM IoT platform: {'name': 'smartbridge', 'lat': 17.42225176, 'lon': 78.5458842}
Data published to IBM IoT platform: {'name': 'smartbridge', 'lat': 17.42225176, 'lon': 78.5458842}
Data published to IBM IoT platform: {'name': 'smartbridge', 'lat': 17.42225176, 'lon': 78.5458842}
Data published to IBM IoT platform: {'name': 'smartbridge', 'lat': 17.42225176, 'lon': 78.5458842}





#out area location



Node-RED Dashboard

Node-RED

127.0.0.1:1880/#flow/e8204cad335cdb66

Node-RED

Deploy

filter nodes

Childtracker

Flow 1

common

- inject
- debug
- complete
- catch
- status
- link in
- link call
- link out
- comment

function

- function
- switch

function

msg.payload

worldmap

geofence

rbe

http request

show dialog

msg.payload

msg.payload

debug

all nodes

all

11/19/2022, 1:50:39 AM node: msg.payload
iot-2/type/NodeMCU/id/12345/evt/status/fmt/json : msg :
Object

{ topic: "iot-2/type/NodeMCU/id/12345/evt...",
payload: "
{ 'status_code': 999, 'message': '-',
deviceId: '12345', deviceType:
'NodeMCU', eventType: 'status' ... }"

11/19/2022, 1:50:43 AM node: msg.payload
iot-2/type/NodeMCU/id/12345/evt/status/fmt/json :
msg.payload : Object

{ name: "smartbridge", lat:
17.42225176, lon: 78.5458842 }

11/19/2022, 1:50:48 AM node: msg.payload
iot-2/type/NodeMCU/id/12345/evt/status/fmt/json :
msg.payload : Object

{ name: "smartbridge", lat:
17.42225176, lon: 78.5458842 }

11/19/2022, 1:50:53 AM node: msg.payload
iot-2/type/NodeMCU/id/12345/evt/status/fmt/json :
msg.payload : Object

{ name: "smartbridge", lat:
17.42225176, lon: 78.5458842 }

23°C Clear

Search

ENG INTL

01:50 19-11-2022

Node-RED Dashboard

Node-RED

127.0.0.1:1880/ui/#/I/0?socketid=TV1AFY636mFWtryVAAAB

Child Tracker

Map

iot-2/type/NodeMCU/id/12345/evt/status/fmt/json
[object Object]

OK

23°C Clear

Search

ENG INTL

01:47 19-11-2022

